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(74) Agent: MOOLJ, Johannes, Jacobus; DSM Intellectual Property, P.O. Box 9, NL-6160 MA Geleen (NL).

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(71) Applicant (for all designated States except US): DSM IP ASSETS B.V. [NL/NL]; Het Overloon 1, NL-6411 Te Heerlen (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): IJPELJ, Edwin, Gerard [NL/NL]; Vrangendaal 153, NL-6136 JN Sittard (NL). ARTS, Henricus, Johannes [NL/NL]; Montjoiesstraat 4, NL-6151 JD Munstergeleen (NL). VAN DOREMAELE, Gerardus, Henricus, Josephus [NL/NL]; Op de Hoef 6, NL-6132 HN Sittard (NL). BEIJER, Felix, Hugo [NL/NL]; Darwinstraat 14, NL-6132 GW Sittard (NL). VAN DER BURGT, Francis [NL/NL]; Robert Schumanstraat 3, NL-6049 HL Herten (NL). ZUIDEVELD, Martin, Alexander [NL/NL]; Erasmusdomein 102a, NL-6229 GD Maastricht (NL).

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(54) Title: PROCESS FOR THE PREPARATION OF A POLYOLEFIN

(57) Abstract: The invention relates to a process for the polymerization of at least one aliphatic or aromatic hydrocarbyl C2-20 mono- or multiolefin in the presence of a catalyst and a boron comprising co-catalyst, wherein the catalyst comprises a composition of a metal-organic reagent, a spectator ligand and optionally at least one equivalent of a hydrocarbylating agent. The invention further relates to a polymer obtainable by the process of the invention.